

IN THE CLAIMS

*The status of the claims as presently amended is as follows:*

1. (*Currently Amended*) An apparatus for arranging music score displaying data for displaying a music score having measures of music progression on a given music score display area of a display device across a plurality of staff tiers, each tier containing one or more measures of variable lengths as justified for the display area, said apparatus comprising:

an input device which inputs data representing a music performance in a plurality of measures of music progression; and

a controller comprising:

a music[[all]] score notational element determining device which determines music score notational elements necessary for displaying on said display area a music score for each of said measures based on the input music performance representing data;

a display size-determining setting device which ~~determines sets, according to input by a user,~~ display sizes of said music score notational elements to be displayed on said display area;

a horizontal length determining device which determines a horizontal length of the music score to be displayed on said display area;

a measure apportioning device which calculates, ~~for each of said measures based on said determined the set~~ display sizes, a minimum horizontal length of each of the measures necessary for placing in each of the measures at least one kind of said music score notational elements, which are determined by the music score notational element determining device, without an overlap in a horizontal direction ~~among said music score notational elements as determined to be displayed on said display area for each of said measures,~~ and apportions said measures for each of said staff tiers based on said calculated minimum horizontal length of each of said measures and said determined horizontal length of the music score to be displayed on said display area such that the music score notational elements of each of said measures are placed on the apportioned staff tier in a length of at least said minimum horizontal length, while each of said measures is positioned only on a single staff tier and not spanning across multiple staff tiers; and

a music score display data output device which outputs music score display data for displaying on said display area said music score notational elements on said staff tiers according to the apportionment of the measures by said measure apportioning device.

2. (*Previously Presented*) An apparatus as claimed in claim 1, wherein said music score notational elements are notes.

3. (*Currently Amended*) An apparatus as claimed in claim 1, wherein said display size determining setting device includes controls to be operated by a user for ~~determining~~ setting the display sizes of said music score notational elements.

4. (*Currently Amended*) An apparatus as claimed in claim 1, wherein the music score is displayed on said display area in the plurality of staff tiers on a page or pages, each page having said music score display area, and wherein said controller further comprises:

a vertical length determining device which determines a vertical length of the music score to be displayed on said display area; and

a staff tiers apportioning device which calculates, for each of said staff tiers based on said ~~determined~~ set display sizes, a maximum vertical length for placing all the music score notational elements in the measures apportioned for the staff tier by said measures apportioning device, and apports said staff tiers for each page based on said calculated maximum vertical length of each of said staff tiers and said determined vertical length of the music score to be displayed on said display area such that a number of staff tiers is placed within said display area on the page,

wherein said music score display data output device outputs music score display data for displaying on said display area the music score for the page by placing the music score notational elements in the staff tiers for which the measures are apportioned by said measure apportioning device according to the apportionment of the staff tiers as apportioned by said staff tiers apportioning device.

5. (*Previously Presented*) An apparatus as claimed in claim 4, wherein said staff tiers apportioning device calculates said maximum vertical length by calculating the highest position of an notational element and the lowest position of an notational element among said notational elements to be placed in each of said staff tiers.

6. (*Currently Amended*) An apparatus for arranging music score displaying data for displaying a music score having measures of music progression on a given music score display area of a

display device across a plurality of staff tiers, each tier containing one or more measures of variable lengths as justified for the display area, said apparatus comprising:

an input device which inputs data representing a music performance in a plurality of measures of music progression; and

a controller comprising:

a display size-determining setting device which ~~determines~~ sets, according to input by a user, display sizes of music score notational elements with respect to the measures to be displayed on said display area based on the input music performance representing data;

a measure length calculating device which calculates, ~~for each of said measures based on said determined set~~ display sizes of the music score notational elements, a horizontal length of each of the measures necessary for placing in each of the measures at least one kind of said music score notational elements without an overlap in a horizontal direction among said music score notational elements to be displayed on said display area;

a measure apportioning device which apportions the measures for each of said staff tiers so that each of the measures to be displayed on said display area is positioned only on a single staff tier and not spanning across multiple staff tiers; and

a music score display data output device which outputs music score display data for displaying on said display area said music score notational elements in said measures according to said determined display sizes of the music score notational elements and said calculated horizontal lengths of the measures.

7. (*Previously Presented*) An apparatus as claimed in claim 6, wherein the measure apportioning device adjusts said music score display data such that a music score is displayed with the plurality of staff tiers on said display area on a page-by-page basis, and apportions said music score notational elements to be placed in a uniform distribution through the staff tier with respect to the music progression.

8. (*Previously Presented*) An apparatus as claimed in claim 6, wherein said music score notational elements are notes.

9. (*Currently Amended*) A computer-readable storage medium storing a computer program executable by an apparatus for arranging music score displaying data for displaying a music score having measures of music progression on a given music score display area of a display

device across a plurality of staff tiers, each tier containing one or more measures of variable lengths as justified for the display area, the computer program containing instructions for:

inputting data representing a music performance in a plurality of measures of music progression;

determining music score notational elements necessary for displaying on said display area a music score for each of said measures based on the input music performance representing data;

determining setting, according to input by a user, display sizes of said music score notational elements to be displayed on said display area;

determining a horizontal length of the music score to be displayed on said display area;

calculating, ~~for each of said measures~~ based on ~~said determined~~ the set display sizes, a minimum horizontal length of each of said measures necessary for placing in each of the measures at least one kind of said music score notational elements without an overlap in a horizontal direction among said music score notational elements as determined to be displayed on said display area ~~for each of said measures~~;

apportioning said measures for each of said staff tiers based on said calculated minimum horizontal length of each of said measures and said determined horizontal length of the music score to be displayed on said display area such that the music score notational elements of each of said measures are placed on the apportioned staff tier in a length of at least said minimum horizontal length, while each of the measures is positioned only on a single staff tier and not spanning across multiple staff tiers; and

outputting music score display data for displaying on said display area said music score notational elements on said staff tiers according to the apportionment of the measures made in the apportioning instruction.

10. *(Currently Amended)* A computer-readable storage medium storing a computer program executable by an apparatus for arranging music score displaying data for displaying a music score having measures of music progression on a given music score display area of a display device across a plurality of staff tiers, each tier containing one or more measures of variable lengths as justified for the display area, the computer program containing instructions for:

inputting data representing a music performance in a plurality of measures of music progression;

determining ~~setting, according to input by a user,~~ display sizes of music score notational elements with respect to the measures to be displayed on said display area based on the input music performance representing data;

calculating, ~~for each of said measures~~ based on said ~~determined~~ the determined display sizes of the music score notational elements, a horizontal length of each of the measures necessary for placing in each of the measures at least one kind of said music score notational elements without an overlap in a horizontal direction among said music score notational elements to be displayed on said display area;

apportioning the measures for each of said staff tiers so that each of the measures to be displayed on said display area is positioned only on a single staff tier and not spanning across multiple staff tiers; and

outputting music score display data for displaying on said display area said music score notational elements in said measures according to said determined display sizes of the music score notational elements and said calculated horizontal lengths of the measures.